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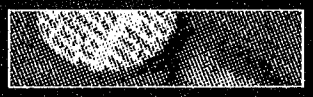

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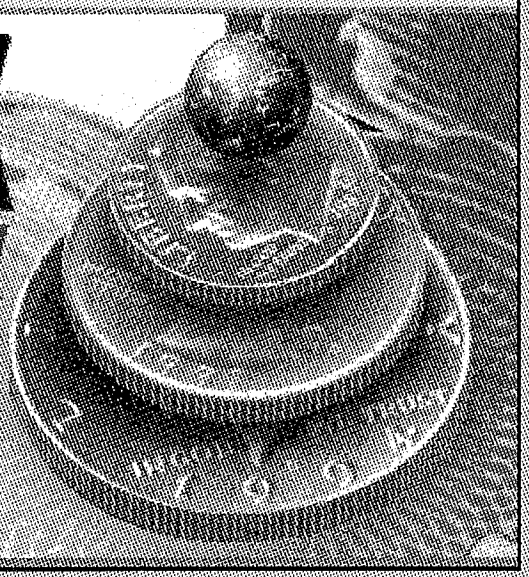

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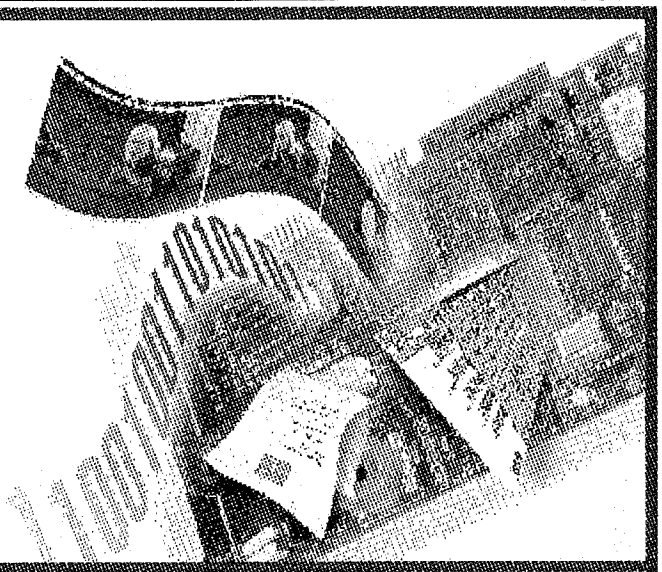

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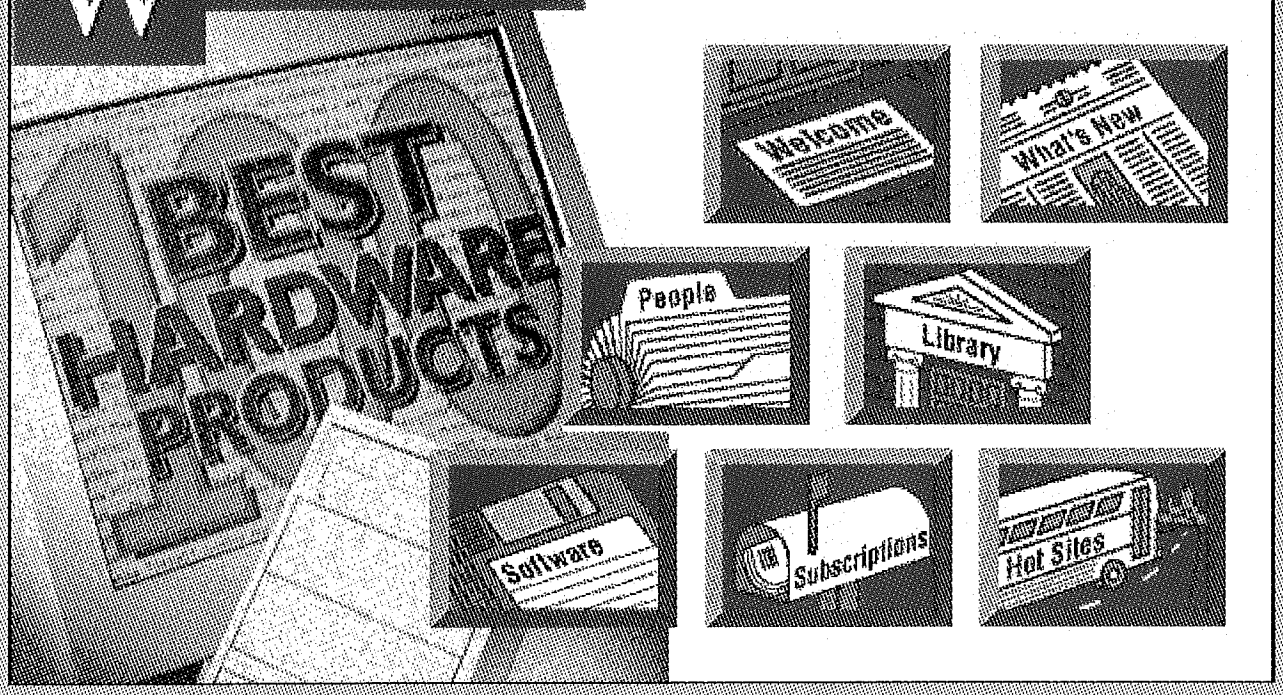

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Windows Magazine: Date: Jan 1, 1994, Score: 1000, Bytes: 21280

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'Hot' technologies debated -- PANELISTS OFFER VIEWS ON EMERGING PC PRODUCTS.
Computer Retail Week: Date: Jan 3, 1994, Score: 682, Bytes: 66766

Choosing Cross-Platform Network APIs -- De Facto Standards Make Application Interoperability Across OSes A Challenge
Open Systems Today: Date: Feb 21, 1993, Score: 639, Bytes: 23073

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Information Week: Date: Apr 17, 1995, Score: 1000, Bytes: 17760

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INFORMATIONWEEK April 17, 1995

Issue 523, page 44

Section: Client-Server

Column: Distributing Computing

Let Your Agent Handle It -- Software agents will sweat the details when users lack the time and patience needed to tackle routine and repetitive business chores

By Dan Richman

Businesses need help. In the midst of the information age, workers are more likely to be buried than elevated by information--coping with the daily onslaught of electronic mail, marketing pitches, and financial reports. And when that information doesn't reach the proper destination, workers have to search for it across myriad networks and databases.

The help that companies need may come from agent technology--software servants that do users' bidding across interconnected networks of client-server computers. Just imagine having a digital assistant boot up your PC each morning before you arrive at the office, automatically download a new version of your favorite database query tool, and even arrange your E-mail in order of importance.

How about an agent that scans your daily calendar of appointments, noting that you plan to meet with a prospective client today? Next, the agent searches a variety of online news services for information on that client, placing the retrieved files into a folder on your PC. The agent then E-mails your favorite restaurant, making a luncheon reservation for the two of you.

So what are these software savants that are able to execute multiple tasks without so much as a click of a mouse? Software **agents** are small, efficient pieces of code that combine the job execution properties of a scripting language with the communications capabilities of objects. **Agents** carry out specific, repetitive, and predictable tasks on behalf of a computer user, business process, or software application. And like software objects, **agents** have programmable properties and behaviors.

"**Agents** at their best are able to process many more variables more quickly than humans can," says Jim Bair, research director for the Santa Clara, Calif., office of the Gartner Group Inc. research firm.

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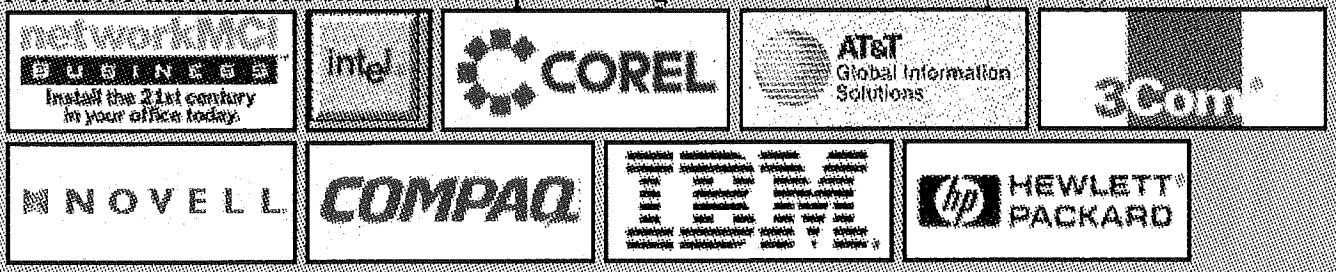

WINDOWS MAGAZINE January 1, 1994

Issue 501, page 221

Section: Small Office/Home Office

SOHO: Why Network? why not! -- Networks don't have to be sprawling to make sense. Even offices with just two PCs can save money and maximizere sources by taking the LAN route.Here's how.

By Jim Boyce

What, me **network**? Odds are you'd get that reaction (along with some puzzled looks) from many PC users in small offices and home offices if you suggested they set up a **network**. These skeptics automatically assume networking isn't worth the trouble or expense unless you have a sizable office with dozens of PCs. In fact, a local area **network** makes eminently good sense even for small offices with as few as two computers.

Why would you need a LAN if you have only a pair of PCs chugging away in your office? Networks offer a number of capabilities that you can't get in a non-networked environment, including the ability to share printers among multiple workstations. Instead of equipping every workstation with a dedicated printer, you can put one on the **network** and share it among all workstations. That can be just as useful in a two-workstation **network** as in a 200-workstation **network**, if not more so. In many cases, it's more critical for small companies to maximize their hardware investment as they're typically working with modest budgets. You might ask, "Why not just buy a device that will let me share the printer between two workstations?" That would be a fine solution if printing were your only concern, but it's probably not.

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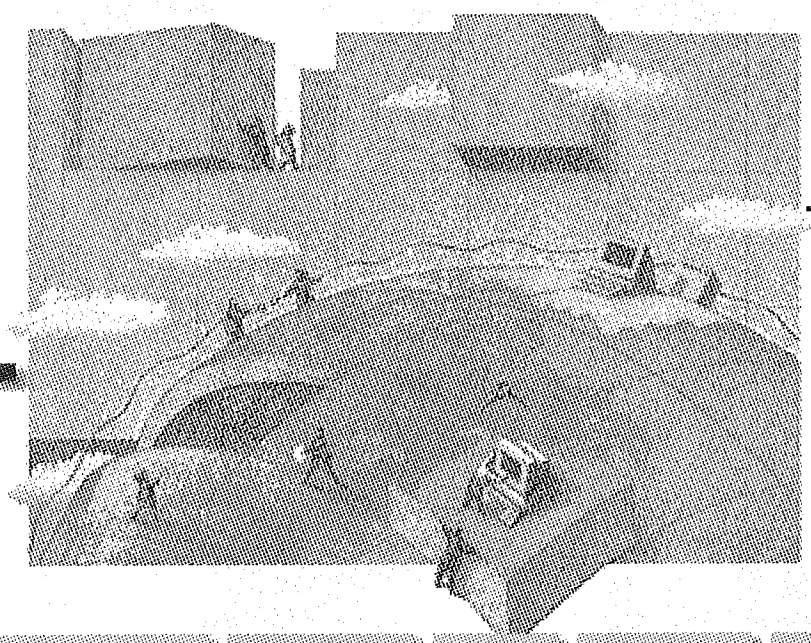

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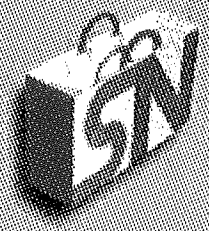

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Reprinted from InfoWorld, June 20, 1994 (Vol. 16, Issue 25)

Improving your image

Not for Mac only -- Windows finds its place in graphics world

There's been something of a shake-up since the last time we compared image editing and creation software. (See product comparison, August 10, 1992.) Two of the programs (WinRix for Windows and Color Studio for the Macintosh) have largely disappeared. New releases of two others -- Fractal Design Corp.'s Painter/X2 2.0 and Adobe Systems Inc.'s Photoshop 2.5.1 -- could change users' preferences in platform and product.

Fractal Design has added both scanning and color-separation tools to its groundbreaking Painter program, making Painter an even more practical and competitive package. Adobe's decision to release a Windows version of the enormously popular Macintosh Photoshop program, with its state-of-the-art masking and prepress tools, could herald the beginning of the end of the Mac as the preferred platform for image editing.

In addition to the Windows and Macintosh versions of both Painter and Photoshop, in this comparison we look at Aldus Corp.'s PhotoStyler 2.0 for Windows and Micrografx Inc.'s Picture Publisher 4.0 for Windows. Both of these programs have been released in major new versions since our last image editors comparison. CFI Inc.'s Image-In Professional Pack 3.2, the seventh package we look at here, has some fine features, but it hasn't changed much in years.

MOVE OVER, MAC. With Photoshop now available in a Windows version, there is no significant advantage to doing your image editing on a Macintosh. Of course, because image editing was one of the Mac's first and best loves, it will take a while for this bias to shift. Most service bureaus still rely primarily on Macs. And because most graphic artists honed their skills on the Mac, you'll still hear how "serious" illustration and photo editing work is best accomplished on the Mac.

The fact remains, however, that Windows image editing programs can now match the capabilities of Mac programs. And if PCs and RISC workstations continue to maintain their price advantage over the Mac, you can expect to see the popularity of those platforms gradually increase. Businesses that standardized on PCs but were forced to adopt Macs for their graphics departments -- a common situation at many newspapers, magazines, and

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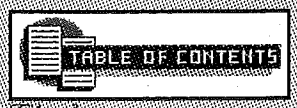

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[Map]

Introduction

The [Index] **United Kingdom** (in full **United Kingdom** of Great Britain and Northern Ireland) is located off the northwestern coast of mainland Europe and consists of four geographic and historical parts--England, Scotland, Wales, and Northern Ireland. The **United Kingdom** makes up most of the British Isles--the geographic term for the group of islands that also includes the republic of Ireland. Together, England, Wales, and Scotland constitute the larger of the two principal islands, while Northern Ireland and the republic of Ireland constitute the second largest. To the southwest of England are the Isles of Scilly, and to the south is the Isle of Wight. The Orkney and Shetland islands lie to the north of Scotland, and the Hebrides lie to the west. Off northwestern Wales is the island of Anglesey.

Apart from the land border with the Irish republic, the **United Kingdom** is surrounded by sea. To the south of England, and between the **United Kingdom** and France, is the English Channel. The North Sea lies to the east. To the west of Wales and northern England is the Irish Sea, while western Scotland and the northwestern coast of Northern Ireland face the Atlantic Ocean.

The area of the **United Kingdom** is 94,251 square miles (244,110 square kilometres). At its widest the **United Kingdom** is 300 miles across. From the top of Scotland to the southern coast of England it is about 600 miles. No part is more than 75 miles from the sea. The national capital is London, situated on the River Thames in the southeastern corner of England.

The names **United Kingdom**, Great Britain, and England are often confused, even by U.K. inhabitants. England is just one country within the kingdom. Great Britain comprises England, Wales, and Scotland, while the **United Kingdom** also includes Northern Ireland (although the name Britain is sometimes used to refer to the **United Kingdom** as a whole). Wales and England were unified politically, administratively, and legally by the acts of union of 1536 and 1542. In 1707 Scotland joined England and Wales in forming a single parliament for Great Britain, although the three countries had previously shared a monarch.

The **United Kingdom** is characterized by a long history and by political and cultural links with other areas of the world, the latter mostly a legacy of its large former empire. In modern times the **United Kingdom** is perhaps best seen as a middle-sized, middle-ranking industrial country.

The political system of the **United Kingdom** has provided stability and consistency since the 19th century, albeit through a structure that has evolved rather than been designed. It is a unitary system centred on London, with some responsibilities devolved to local governments. The national government is a parliamentary

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Lysophosphatidylcholine Attenuates the Cytotoxic Effects of the Antineoplastic Phospholipid 1-*O*-Octadecyl-2-*O*-methyl-*rac*-glycero-3-phosphocholine(*)

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- ABSTRACT
- INTRODUCTION
- EXPERIMENTAL PROCEDURES
- RESULTS
- DISCUSSION
- FOOTNOTES
- ACKNOWLEDGEMENTS
- REFERENCES

ABSTRACT

A colony-stimulating factor 1-dependent cell line was used to determine the relationship between the inhibition of phospholipid synthesis and the cytotoxic activity of the antineoplastic ether lipid, 1-*O*-octadecyl-2-*O*-methyl-*rac*-glycero-3-phosphocholine (ET-18-OCH_3). ET-18-OCH_3 inhibited choline incorporation into **phosphatidylcholine** as well as total phospholipid synthesis. Exposure to ET-18-OCH_3 at the G_1/S boundary led to the accumulation of cells in G_2, whereas the addition of ET-18-OCH_3 in the G_1 phase of the cell cycle prevented entry into the S phase. In both cases, ET-18-OCH_3 treatment triggered DNA fragmentation and morphological changes associated with apoptosis within 10

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Total phospholipid accumulation was quantitated by equilibrium labeling with [^{32}P]orthophosphate (47). BAC1.2F5 cells were incubated in phosphate-free Dulbecco's modified Eagle's medium plus 25% LCM for 2 days, starved for CSF-1 for 18 h, and restimulated with LCM as the source of CSF-1. Thus, the phosphate-deficient medium contained 25% of the total inorganic phosphate found in normal growth medium. All media contained 3 μCi/ml [^{32}P]orthophosphate. 24 h after the readdition of growth factor, cells were washed twice with ice-cold PBS and scraped into 1 ml of cold methanol. The lipids were extracted (52), and the incorporation of label into phospholipids was quantitated by scintillation counting.

RESULTS

Inhibition of PtdCho and Total Phospholipid Synthesis by ET-18-OCH_3

We confirmed that ET-18-OCH_3 inhibited PtdCho synthesis in the BAC1.2F5 cell system. Cells were labeled with [^{3}H]choline, and the effect of 12 μM ET-18-OCH_3 on the incorporation of label into phospholipid over a 6-h time course was determined (Fig. 1 *A*). A concentration of 12 μM ET-18-OCH_3 maximally inhibited [^{3}H]choline incorporation into phospholipid (38). ET-18-OCH_3 reduced PtdCho synthesis as early as 1 h in BAC1.2F5 cells (Fig. 1 *A*). This inhibition was not due to the inability of the cells to take up choline, because the accumulation of label in the soluble pool was the same in treated and untreated cells at 2 h. Also, thin-layer chromatography of the soluble pool at 2 h showed that the principal component was phosphocholine, which was present in equal amounts in both treated and untreated cells (data not shown). Furthermore, the exposure of BAC1.2F5 cells to LPC did not reverse the inhibition of PtdCho synthesis by ET-18-OCH_3 (Fig. 1 *A*), because LPC itself inhibits PtdCho synthesis at the CTP:phosphocholine cytidylyltransferase step (38).

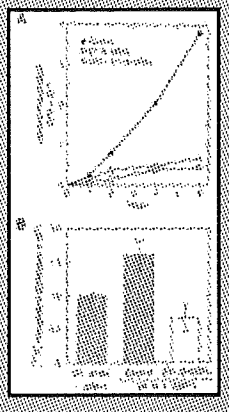

Figure 1. Inhibition of membrane phospholipid synthesis by ET-18-OCH_3. *A*, an asynchronous population of BAC1.2F5 cells was either left untreated (●) or treated with 12 μM ET-18-OCH_3 (○) or 200 μM LPC plus 12 μM ET-18-OCH_3 (△) and was labeled with 2 μM [^{3}H]choline (specific activity, 0.75 μCi/μmol). At the times indicated the cells were harvested and extracted, and the amount of label incorporated into phospholipid was determined as described under "Experimental Procedures." The incorporation of [^{3}H]choline into phospholipid in control cells at 6 h was 320 pmol/10^6 cells. *B*, BAC1.2F5 cells were grown for 2 days, then starved for CSF-1 for 18 h, and restimulated to enter the cell cycle with CSF-1. During the entire 3-day period, the medium contained 3 μCi/ml [^{32}P]orthophosphate. One set of dishes was harvested at the time of CSF-1 readdition, and two other sets of dishes were harvested 24 h later. ET-18-OCH_3 (12 μM) was added along with CSF-1 at the time the cells were stimulated to traverse the cell cycle. Cells were washed once with PBS and scraped from the dish, and the amount of label in the phospholipid fraction was determined by liquid scintillation counting following lipid extraction.

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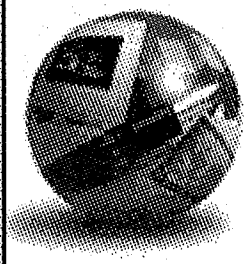

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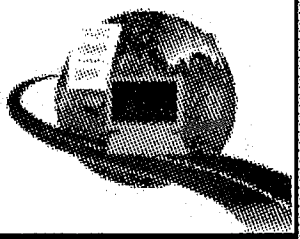

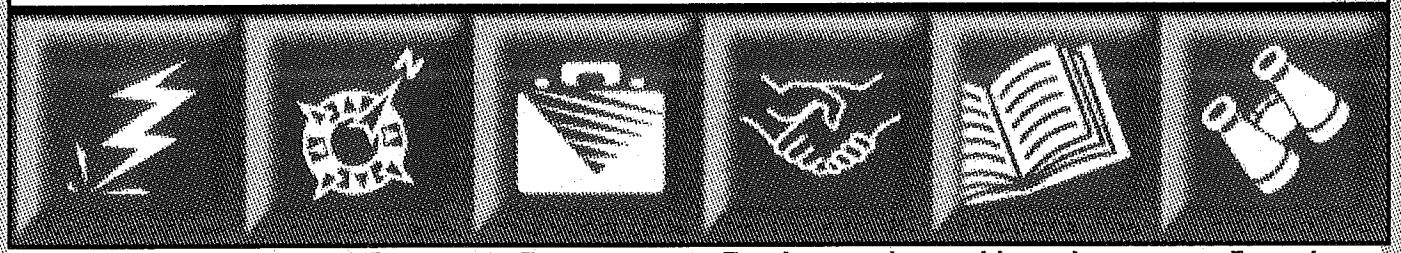

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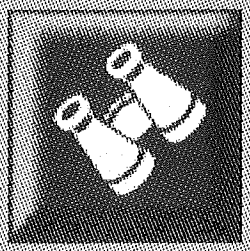

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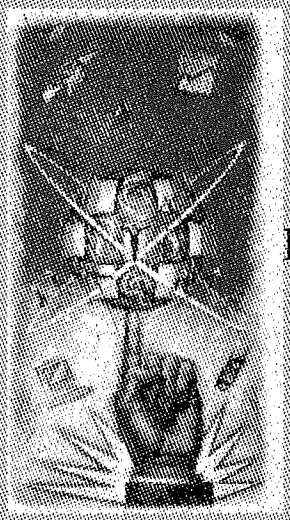

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(In thousands, except earnings per share)	Fiscal Year Ended September 30,				
	1994	1993	1992	1991	1990
Net revenues	$184,068	$178,243	$163,720	$135,624	$106,854
Net profit (loss)	14,246	13,846	8,517	(11,145)	(3,541)
Net profit (loss) per share	0.45	0.47	0.32	(0.46)	(0.15)
Working capital (deficiency)	77,510	60,204	6,183	(3,470)	5,163
Total assets	138,574	111,276	60,009	51,850	51,746
Shareholders' equity	89,644	70,531	16,399	6,425	13,921

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